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AXIAL RETENTION FEATURE FOR RE-STRAINING COMPOSITE REINFORCING RINGS

Abstract

A magnetic shield assembly for confining rotor windings in a generator includes a substantially cylindrical tubular shield of two or more part-annular segments adapted to enclose the rotor windings; a plurality of axially spaced rings located on the tubular shield; and a plurality of annular spacers radially between the tubular shield and the plurality of rings and axially between adjacent rings to thereby present physical barriers to axial migration of the plurality of rings. In an alternative arrangement, the magnetic shield assembly for confining rotor windings in a generator includes a substantially cylindrical tubular shield of two or more part-annular segments adapted to enclose the rotor windings; a plurality of axially spaced rings located on the tubular shield, the rings having a radially inner surface with at least one surface depression therein; and epoxy adhesive located between the rings and the magnetic shield and bonded to the magnetic shield, with a release agent between the epoxy adhesive and the rings; and

wherein the at least one surface depression is filled with cured epoxy adhesive, thus forming a mechanical barrier to axial migration of the rings on the magnetic shield.